

ver. EN 151015 SU

VM 1260

Basic Information

Basic Structure Cutting Performance

Detailed Information

Options
Optimized Tool
Processing Solution
Capacity Diagram
Specifications

Customer Support Service



VM series

Vertical Machining Center Ideal for Mold Processing

Low-vibration built-in spindle and highest stroke in its class. Designed for both roughing and finishing, the VM Series provides a product line-up ranging from Unit 7 to Unit 12 sizes. The new design boasting improved operator convenience and work efficiency will raise users' productivity and create added value.



Broad product line-up designed for diverse requirements

Complete line-up ranging from Unit #7 to #12 sizes.

• VM 750 (L) / VM 960 (L) / VM 1260

Highest reliability realized with a wide range of spindle speeds and excellent quality

- Dual contact spindle (standard)
- Gear type 6000 rpm / 8000 rpm
- Built-in type 12000 rpm

Control solution for processing high-quality molds

- High-speed, high-precision contour control
- Tool monitoring
- Optimal feed control

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Basic Structure

High feedrate and precision have been realized with the adoption of a stable C-type column structure and bed design.

Rigid Construction for Heavy Duty Applications

- The rigidity is increased by effectively arranging the box type structure of bed, column and saddle.
- Rigidity and stability are assured with the wide box guide structure.
- The spindle head is supported by the wide guide way for the stable cutting performance.
- Wide z-side slide and wide y-side transport support prevent skewing and make it suitable for powerful, heavy cutting.



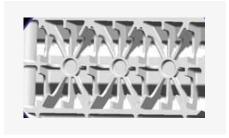
Exceptionally Durable All-in-One Single Frame Construction

The wide bed slide is heat-treated with high frequency providing outstanding performance during heavy duty cutting operations.



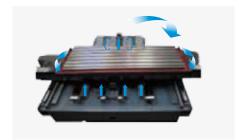
Radial Rib Structure

The processing is improved with the reduced weight and absorbed vibrations during heavy duty cutting.



Coolant Recirculation System

The cleanliness and service life of the coolant have been improved.





Equipped with wide boxtype guideways and a large-capacity tool changer.

Rapid Traverse

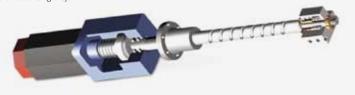
The adoption of a wide box guide structure delivers greater rigidity and stability. The entire upper surface of the saddle is equipped with slide bearings and oil grooves to prevent friction and wear.

Rapid traverse rate VM 750 (L) = 20 / 20 / 20 m/min = (787.4 / 787.4 / 787.4 ipm) VM 960 (L) = 16 / 16 / 16 m/min = (629.9 / 629.9 / 629.9 ipm) VM 1260 = 12 / 12 / 12 m/min = (472.4 / 472.4 / 472.4 ipm)

Rapid traverse rate

Large diameter ball screw for powerful cutting

Fitted with high-precision, fixed ends, pre-tensioned double anchor structure ball screw. The nut is cooled on the outer rim to minimize thermal error, while direct-coupled structure delivers rapid responsiveness and excellent rigidity.



Minimized Idle Time

A high-speed cam-type tool changer has been adopted as a standard feature to deliver higher productivity. The loop-type magazine on the left side of the machine stores 40 tools as standard, and can be extended.



ool change time (T-T-T)

2.5 sec.



Tool magazine

VM 750 (L) / VM 960 (L)

30^{sec.}

40sec.

standard

VM 1260

40sec. standard





solutions.

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Table

Table

The extended X axis travel distance allows the setting up and cutting of wider workpieces of various shapes.

Largest work area in its class

X-axis x Y-axis

VM 750 (L)

1600 x 800 (1900 x 800)mm

(63.0 x 31.5 (74.8 x 31.5) inch)

VM 960 (L)

2400 x 950 (2600 x 950)mm

(94.5 x 37.4 (102.4 x 37.4) inch)

VM 1260

2800 x 1260mm

(110.2 x 49.6 inch)



Greatest table loading capacity in its class

VM 750 (L)

3000 (3500) kg

(6613.8 (7716.1) lb)

VM 960 (L)

4000 (4500)kg

(8818.4 (9920.7) lb)

VM 1260

8000kg

(17636.7 lb)





Spindle

The stable thermaldisplacement-preventive structure minimizes spindle taper error at high speed. The wide range of speeds and excellent quality of the spindle guarantee the highest reliability.

Gear Type

- Powerful cutting of large workpieces: Powerful processing capability of large workpieces with maximum torque is offered by 2-stage gear drive.
- High-speed tapping: Standard adoption of rigid tap allows high speed tapping without the tap holder.
- High rigidity and stability: Rigid angular contact bearing is adopted to assure rigidity and stability by maintaining the rigidity even during heavy duty cutting.

Max. spindle speed 6000 r/min 8000 r/min option Motor (30 min/cont.) VM750 (L), VM 960 (L) 18.5 / 15kw (24.8 / 20.1 Hp) VM 1260 22 / 18.5kW (29.5 / 24.8 Hp) **BIG-PLUS PAT. CONVENTIONAL Dual contact spindle** CONTACT **SPACE** Dual contact spindle (BIG PLUS) adopted as a standard feature

Built-in Type option

Motor (30 min/cont.)

30 / 25 kW
(40.2 / 33.5 Hp)

• Rigid and precise spindle
Adoption of 100 diameter rigid ceramic bearing and oil supply (oil mist) method assure high precision even during the extended time of high speed rotation.

• Highest speed spindle in its class
Adoption of low vibration built-in motor offers optimum molding with the highest spindle speed (12000 r/min) and the highest torque of 419.44 N·m (309.5 ft-lb) in its class.



Provides high-

productivity and high-

accuracy in a variety of machining operations.

Cutting Performance

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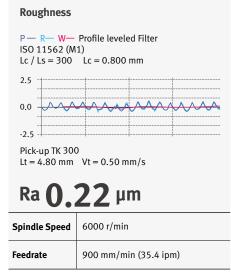
VM 1260 [12000 r/min]

Face mill Carbon steel (SM45	C)			
ø125mm (4.9 inch) Face mill				
Machining rate cm³/min (inch³/min)	Spindle speed r/min	Feedrate mm/min (ipm)	5mm (0.2 inch)	
660 (40.3)	500	1660 (65.4)	(0.2 inch)	
End mill Carbon steel (SM45)				
ø63mm (2.5 inch) Endmill (4	Z)			
Machining rate cm³/min (inch³/min)	Spindle speed r/min	Feedrate mm/min (ipm)	31.5mm (1.2 inch)	
635 (38.8)	500	320 (12.6)	(2.5 inch)	
Face mill Gray casting (GC25)				
ø125mm (4.9 inch) Face mill	(8Z)			
Machining rate cm³/min (inch³/min)	Spindle speed r/min	Feedrate mm/min (ipm)	5mm (0.2 inch)	
1260 (76.9)	500	2520 (99.2)	(3.9 inch) (0.2 inch)	
End mill Gray casting (GC25)				
ø63mm (2.5 inch) Endmill (4.	Z)			
Machining rate cm³/min (inch³/min)	Spindle speed r/min	Feedrate mm/min (ipm)	31.5mm 1.2 incl	
1012 (61.8)	500	320 (12.6)	(2.5 inch)	
Drill Carbon steel (SM45C)				
ø73mm (2.9 inch) Drill (2Z)				
Spindle speed r/min		Feedrate mm/min (ipm)	73mm (2.9 inch)	
500 140 (5.5)				
Tap Carbon steel (SM45C)				
ø73mm (2.9 inch) Drill (2Z)				
Tool		Spindle speed r/min		
M42 x P4.5		400		

^{*}The results, indicated in this catalogue are provides as example. They may not be obtained due to differences in cutting conditions and environmental conditions during measurement.

Machining Accuracy







Various options are available to satisfy various requirements.

NO.	Description	Features	VM750 (L)	VM 960 (L)	VM 1260
1		18.5/15 KW	•	•	Х
2	Spindle meter power	22/18.5 KW	0	0	•
3	Spindle motor power	26/22 KW	0	0	0
4		30/25 KW	0	0	0
5		6000 RPM	•	•	•
6	Spindle speed	8000 RPM	0	0	0
7		12000 RPM	0	0	0
8	ATC	30 TOOLS	•	•	Х
9	ATC	40 TOOLS	0	0	•
10	lin and and	INCREMENTAL	0	0	0
11	Linear scale	ABSOLUTE	0	0	0
12		REAR COVER & CHIP COVER ON			v
12		THE TABLE		•	X
13	SPLASH GUARD	FULL ENCLOSED SPLASH GUARD WITHOUT TOP COVER	0	0	•
		FULL ENCLOSED SPLASH GUARD			
14		WITH TOP COVER	0	0	0
15	Coolant tank		•	•	•
16	Coolant pump		•	•	•
17	The second secon	1.5 KW_2.0 MPA_BAG FILTER	0	0	0
18	TSC	1.5 KW_2.0 MPA_CYCLON FILTER	0	0	0
19		5.5 KW_7.0 MPA_DUAL BAG FILTER	0	0	0
20	OILSKIMMER	BELT TYPE	0	0	0
21	Coolant gun	DEE! THE	0	0	0
22	Air gun		0	0	0
23	Air blower		•	•	•
24	7th blower		0	0	0
25	Auto work measuring device		0	0	0
	Master tool for auto tool measurement				
26	MASTER TOOL		0	0	0
27	Auto tool measuring device		0	0	0
28	Test bar		0	0	0
29	CNC	FANUC 31iB	•	•	•
30	NC	10.4 INCH (COLOR)	•	•	•
31	NC screen size		0	0	0
32	Gravity shaft fall prevention system (at power failure)		0	0	0
33	Transformer		0	0	0
34	Power panel air conditioner		0	0	0
35	Power panel light		0	0	0
36	Power panel line filter		0	0	0
37	Auto NC power off		•	•	•
38	rate ite petter en	Tool management system	•	•	•
39	Face Or costing Parkers	Alarm / M-code / G-code / ATC restoration	•	•	•
	Easy Operation Package	guidance			
40		Table movement / Guidance on work	•	•	•
		coordinate system setup		0	
41		1 MPG_PORTABLE TYPE	0	0	0
42	MPG	1 MPG_DISPLAY TYPE	0	0	0
43		3 MPG_PORTABLE TYPE	0	•	•
44		3 MPG_STAND TYPE	•	0	0
45	DCO (bish speed / bish :	DSQ1 (AICC II_200 BLOCKS)	•	•	•
46	DSQ (high speed / high precision	DSQ2 (DSQ1 & DATA SERVER 1GB)	0	0	0
47	contour control)	DSQ3 (DSQ2 & 600 BLOCKS)	0	0	0
48	DAEC (Doogan Adoptive Forduct)	DSQ4 (DSQ3 & 1000 BLOCKS)	0	0	0
49	DAFC (Doosan Adaptive Feedrate Control)		0	0	0
50	DTMM (Doosan Tool load Monitoring for Machining Centers)		0	0	0
51	DSTC (Doosan Smart Thermal Control)		•	•	•
52	Counter function	WORK / TOTAL / DAILY	0	0	0



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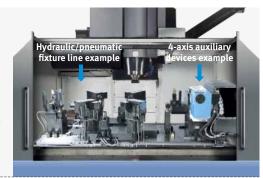
Options Optimized Tool **Processing Solution** Capacity Diagram Specifications

Customer Support Service

Interface for Additional Axis

- Recommended rotary table size : VM 750 (L) : ø320 mm / VM 960 (L): ø500 mm VM 1260: ø500 mm
- Please check the driving system (hydraulic or pneumatic) of the rotary table before ordering the machine.





Fixture check list (for hydraulic / pneumatic fixtures)

• Pressure source

☐ P/T Hydraulic ☐ P/T Pneumatic

□ A/B ☐ A/B

Number of ports

☐ 1pair (2-PT 3/8"port)

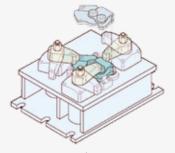
☐ 2pair (4-PT 3/8"port)

☐ 3pair (6-PT 3/8"port)

• Hydraulic power unit

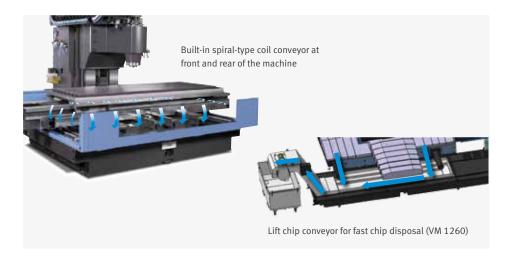
Supply scope : ☐ End user □ DOOSAN

☐ Doosan standard unit 24L / min, 4.9 MPa ☐ Other requirements ___ _ L / min, .



* Please contact Doosan for more information.

Easy Chip Disposal



Diverse Options

Numerous options are offered for greater efficiency and customer convenience.



Coolant Gun option Coolant gun helps keeping the work environment clean.



Through-spindle coolant spray system



Oil skimmer



Optimized Tool Processing Solution

Superior surface finishes and machining accuracy are achieved through using standard processing solutions such as high-speed / high-precision contour control and thermal displacement compensation.

High Speed / High Precision Contour Control

DSQ1
 (AICC2 _ 200 Block + Machining condition selection function)

• DSQ2 option (DSQ1 + Data server [1GB])

 DSQ3 option (DSQ2 + High speed processing _ 600 Block)





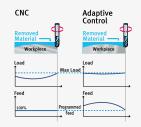
Specimen tested : VASE

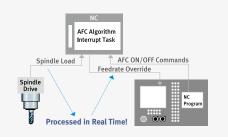


The Optimal Feed Control option

* DAFC: Doosan Adaptive Feedrate Control

Optimal feed control is ensured by realtime spindle load detection.



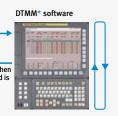


Tool Load Monitoring System (DTMM*) option

* DTMM: Doosan Tool load Monitoring for Machining Centers

The technology of protecting tool and machine in abnormal load during the cutting process





✓ Detection cycle = Program interpolation cycle

Automatic stop when an abnormal load is detected

 Select an alternative tool and command to NC

Smart thermal displacement multi compensation technology

*DSTC: Doosan Smart Thermal Control

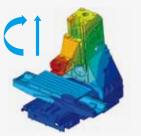
Realizes high-quality, high-precision machining with smoothing thermal displacement compensation of the spindle and structure.

Compensation of static displacement of spindle

Compensates changes in tool position caused by expansion of the spindle shaft at high speed.

Structure thermal displacement compensation

Compensates irregular deflection or expansion of the structure due to ambient temperature using a multiple temperature sensors.



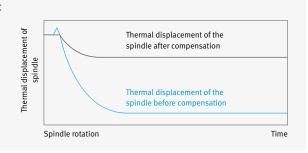
Compensation of structure thermal displacement

Thermal error of the spindle caused by heat accumulation is compensated with 5 algorithms including a smoothing function.





With smoothing





Easy Operation Package

Operation / Maintenance

Basic Structure

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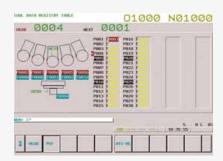
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Options Optimized Tool **Processing Solution** Capacity Diagram Specifications

Customer Support Service

These Doosan software packages have been customized to provide fast and easy setup of tooling, workpiece, and program. These functions minimize the idle time caused by process setup and maximize the machine's productivity.



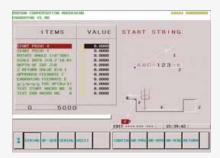
Tool Data Registry Table

Displays the information on the tools in the pot in 2D graphics.



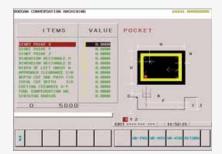
Engraving option

Allows character engraving on the workpiece.



ATC Recovery Help

When ATC is stopped (malfunction or emergency), this function guides the operator to recover the machine back to its normal state.



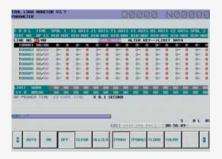
Renishaw Gui (Tool measure) (Work measure option)

Enables automatic measurement of tool length, tool diameter, and work coordinates, and detects tool damage using an interactive method.



Sensor Status Monitor

Shows solenoid valve and sensor status without the electric diagram.



Pattern Cycle

Pattern cycle programs can be created using an interactive way of parameter input.



Tool Load Monitor option

Detects tool damage and wear by setting limits on the load for spindle and axis to minimize mechanical damages.

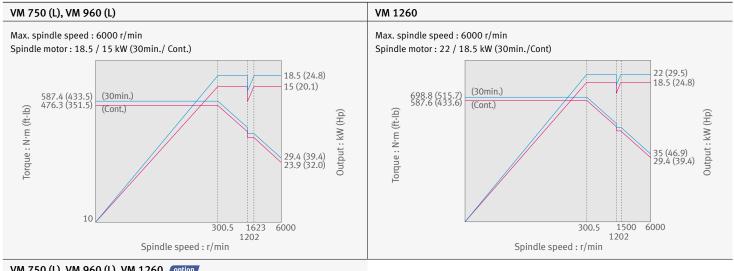


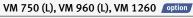
Calculator

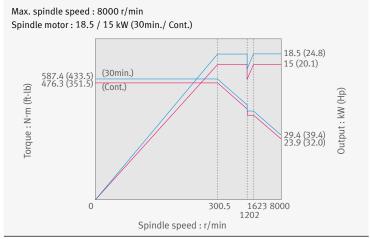
Provides all functions of a general calculator plus automatic calculation of cutting size and conditions.

Spindle Power - Torque Diagram

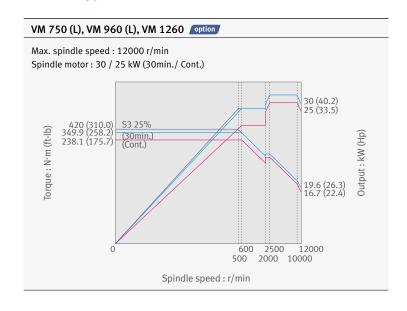
Gear Type







Built-in Type



External Dimensions

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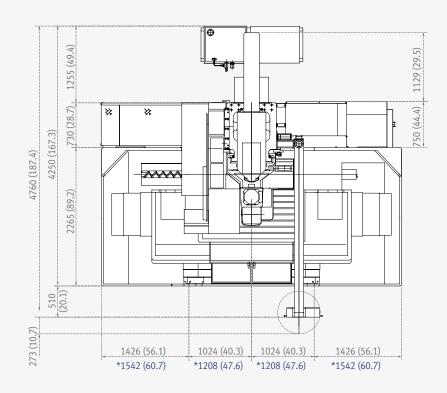
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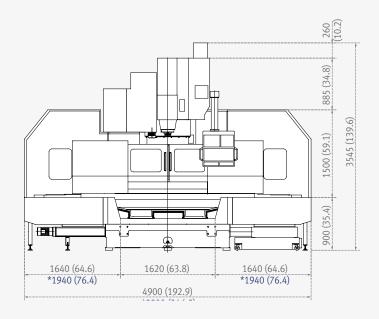
VM 750 / 750L (Half Cover, for domestic market)

Unit: mm (inch)

Top View



Front View

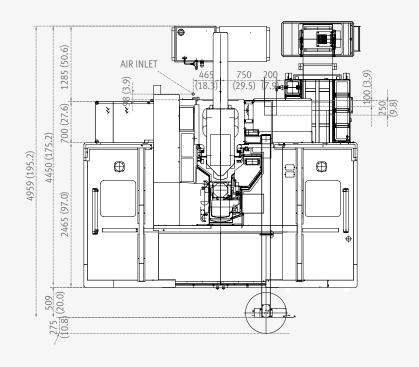


External Dimensions

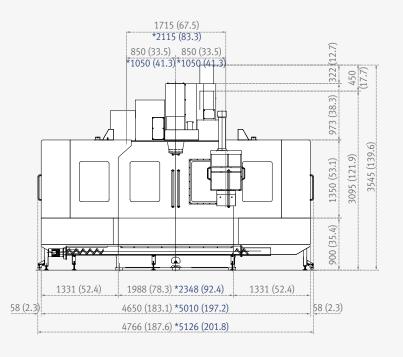
VM 750 / 750L (Full Cover) option

Unit: mm (inch)

Top View



Front View



*: VM 750L

External Dimensions

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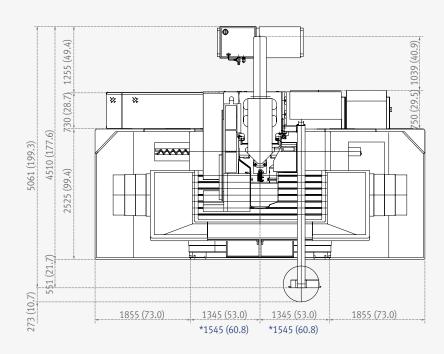
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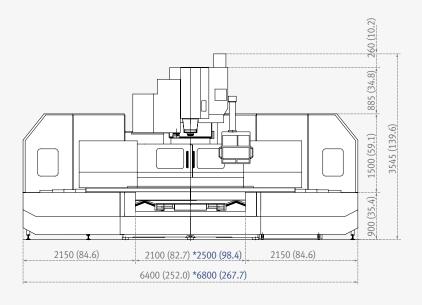
VM 960 / 960L (Half Cover, for domestic market)

Unit: mm (inch)

Top View



Front View

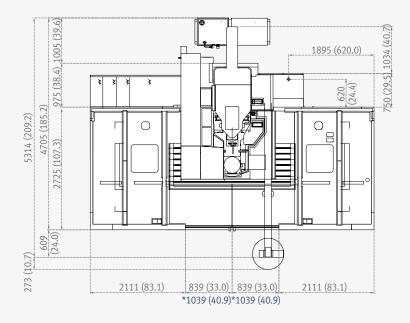


External Dimensions

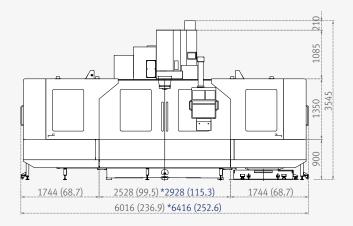
VM 960 / 960L (Full Cover) option

Unit: mm (inch)

Top View



Front View



*: VM 960L

External Dimensions

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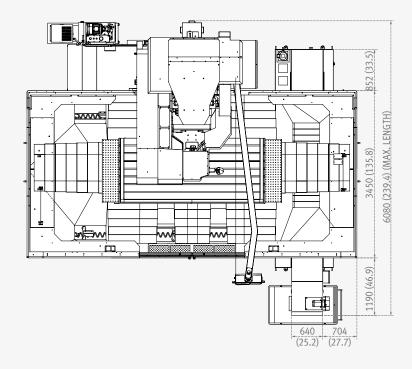
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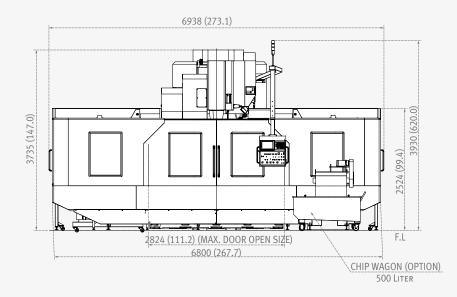
VM 1260 (Full Cover)

Unit: mm (inch)

Top View

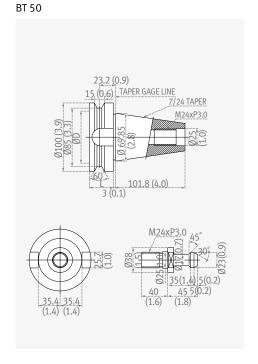


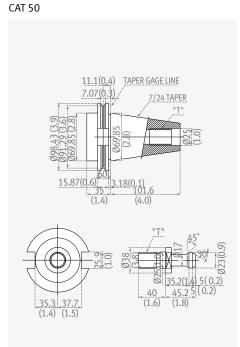
Front View



Tool Shank / Table

Tool Shank
Unit: mm (inch)





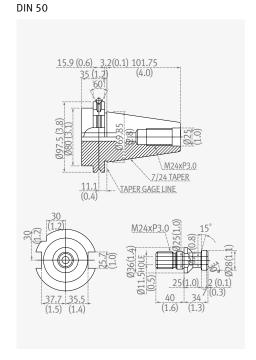
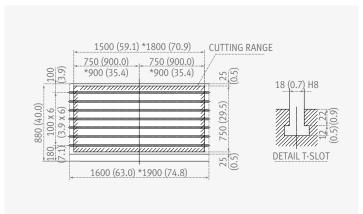


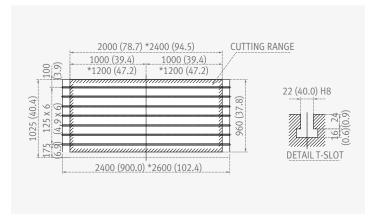
Table (for both half & full cover types)

Unit: mm (inch)

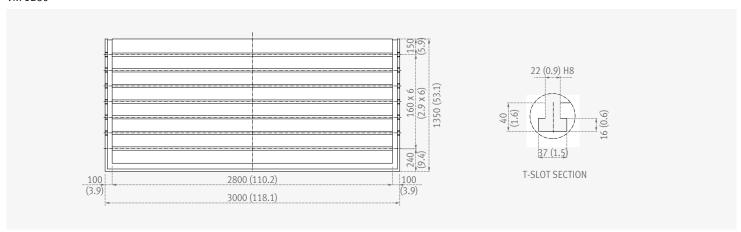
VM 750 / 750L







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Machine Specifications



				i	7	i	i	
Description		Unit	VM750	VM 750L	VM 960	VM 960L	VM 1260	
Travel	X-axis	mm (inch)	1500 (59.1)	1800 (70.9)	2000 (78.7)	2400 (94.5)	2500 (98.4)	
	Y-axis	mm (inch)	750 (29.5)		960 (37.8)		1260 (49.6)	
	Z-axis	mm (inch)	800 (31.5)				900 (35.4)	
	Distance from spindle nose to table top	mm (inch)		200 - 1000	(7.9 - 39.4)	200 - 1100 (7.9 - 43.3)		
	Distance from spindle nose to column	mm (inch)	865 (34.1)		1005	1320 (52.0)		
Feedrate	Rapid feedrate (X, Y, Z)	m/min (ipm)	20 / 20 / 20 (787.4 / 787.4 / 787.4)		16 / 1 (629.9 / 62)	12 / 12 / 12 (472.4 / 472.4 / 472.4)		
	Cutting feedrate	mm/min (ipm)	100	000	80	6000		
Table	Table size	mm (inch)	1600 x 800 (63.0 x 31.5)	1900 x 800 (74.8 x 31.5)	2400 x 950 (94.5 x 37.4)	2600 x 950 (102.4 x 37.4)	2800 x 1260 (110.2 x 49.6)	
Table	Loading capacity	kg (lb)	3000	3500	4000	4500	8000	
	Max. spindle speed	r/min		600	00 {8000, 1200	00}*		
	Taper			IS	O#50 7/24 Tap	per		
Spindle	Max. torque	N∙m (ft-lb)		587.6 {698.8,	793.8}*, {420}*	698.8 {793.8}*, {420}*		
	Type of tool shank			BIG F	PLUS MAS403 I	BT50		
	Tool storage capacity	ea	30 {40}*				40	
	Max. tool diameter	mm (inch)	ø125 (ø4.9)				1	
	Max. tool dia. (when a nearest port is empty)	mm (inch)	ø230 (ø9.1)					
ATC	Max. tool length	mm (inch)	350 (13.8)					
	Max. tool weight	kg (lb)	15 (33.1)					
	Tool selection type							
	Tool change time (tool to tool)	S	2.5					
	Tool change time (chip to chip)	S	6 8					
Motor	Spindle motor power (30 min)	kW (Hp)				22 / 18.5 {18.5 / 15, 30 / 25}* (29.5 / 24.8 { 24.8 / 20.1, 40.2 / 33.5}*)		
	Travel motor (X / Y / Z)	kW (Hp)	7 / 7 / 7 (9.4 / 9.4 / 9.4)				9 / 9 / 7 (12.1 / 12.1 / 9.4)	
Dower	Electric power	kVA		60 {	70}*		65 {73}*	
Power Consumption	Compressed air pressure	Mpa (psi)	0.54 (78.3)					
Tank	Coolant tank capacity	L	480 520			800		
Capacity	Lubricant tank capacity	L	12					
	Height (H)	mm (inch)	3545 (139.6)			3930 (154.7)		
	Dimension (L x W)	mm (inch)	4927 x 4900 {5126 x 4766}* (194.0 x 192.9 {201.8 x 187.6}*)	4927 x 5500 {5126 x 5126}* (194.0 x 216.5 {201.8 x 201.8}*)	5138 x 6400 {5392 x 6016}* (202.3 x 252.0 {212.3 x 236.9}*)	5138 x 6800 {5392 x 6416}* (202.3 x 267.7 {212.3 x 252.6}*)	5645 x 6938	
	Weight	kg (lb)	14000 (30864.3)	14800 (32627.9)	20000 (44091.8)	21000 (46296.4)	31000 (68342.3)	
	Weight	-	187.6}*) 14000	201.8}*) 14800	236.9}*)	252.6}*) 21000		

FANUC 31i

Item		Spec.	FANUC 31
	Additional controlled axes	5 axes in total	0
Axes Control	Least command increment	0.001 mm / 0.0001"	•
Axes Control	Least input increment	A	•
	Interpolation type pitch error compensation		0
	2nd reference point return	G30	•
	3rd / 4th reference return		0
	Inverse time feed		0
	Cylinderical interpolation		0
	Helical interpolation B	Only Fanuc 30i	-
	Smooth interpolation		0
	NURBS interpolation		0
	Involute interpolation Helical involute interpolation		0
			0
	ahead interpolation		0
	Smooth backlash compensation		•
	Automatic corner override	G62	
nterpolation &	Manual handle feed rate		ŏ
eed Function	Handle interruption	XI, XIO, XIOO (per puise)	-
	Manual handle retrace		0
	Manual handle feed 2/3 unit		•
	Nano smoothing	Al contour control II is required	0
	AICC II		•
	AICC II		0
	High-speed processing		X
	Look-ahead blocks expansion		0
	DSQ I		•
			_
	DSQ II		0
	DEO III		_
	DSQ III		0
	M- code function		•
	Retraction for rigid tapping		•
vi-code Function	Rigid tapping	G84, G74	•
	Number of tool offsets	64 ea	•
	Number of tool offsets	99 / 200 / 400 / 499 / 999 / 2000 ea	0
	Tool nose radius compensation		•
Tool Function	Tool length compensation	G43, G44, G49	•
	Tool life management		•
	Addition of tool pairs for tool life management		0
	Tool offset	G45 - G48	0
	Custom macro		•
	Macro executor		•
	Part program storage		•
	Part program storage		0
	Inch/metric conversion		•
laiting Function	Number of Registered programs		•
	Number of Registered programs Optional block skip		0
		9 BLOCK	0
	Playback function Addition of workpiece coordinate system	CE (1 D1 () () () () ()	48 pairs
	Embeded Ethernet	034.1 F1 - 300 (300 pans)	•
	USB memory interface	Only Data Read & Write	
pindle & -code Function ool Function THERS JNCTIONS Operation,	High speed skip function	ony saw read a vine	
	Polar coordinate command	G15 / G16	0
	Polar coordinate interpolation		0
	Programmable mirror image		0
	Scaling		0
	Single direction positioning		0
	Pattern data input		0
	Jerk control	Al contour control II is required.	0
	Fast Data server with 1GB PCMCIA card	· ·	Ö
	Fast Ethernet		0
	3-dimensional coordinate conversion		0
THERS	3-dimensional tool compensation		0
UNCTIONS	Figure copying	G72.1, G72.2	0
Operation,	Machining time stamp function		0
etting & Display, etc)	EZ Guide I with 10.4" Color TFT	When the EZ Guide i is used, the Dynamic graphic display cannot	0
	Dynamic graphic display (with 10.4" Color TFT LCD	Machining profile drawing.)When the EZ Guide i is used, the Dynamic graphic display cannot	0
	3-dimensional tool compensation	αργιιτατίθη	OPT
	3-dimensional tool compensation	672 1 672 2	
	Figure copying Machining time stamp function	G72.1, G72.2	OPT
	Machining time stamp function	Doocan infracore Convercational Programming Calvition	OPT
	EZ Guide I with 10.4" Color TFT	Doosan infracore Conversational Programming Solution -When the EZ Guide i is used, the Dynamic graphic display cannot application	OPT
	Dynamic graphic display (with 10.4" Color TFT LCD	Machining profile drawing. -When the EZ Guide i is used, the Dynamic graphic display cannot application	OPT

Basic Information

Basic Structure Cutting Performance

Detailed Information

Options
Optimized Tool
Processing Solution
Capacity Diagram
Specifications

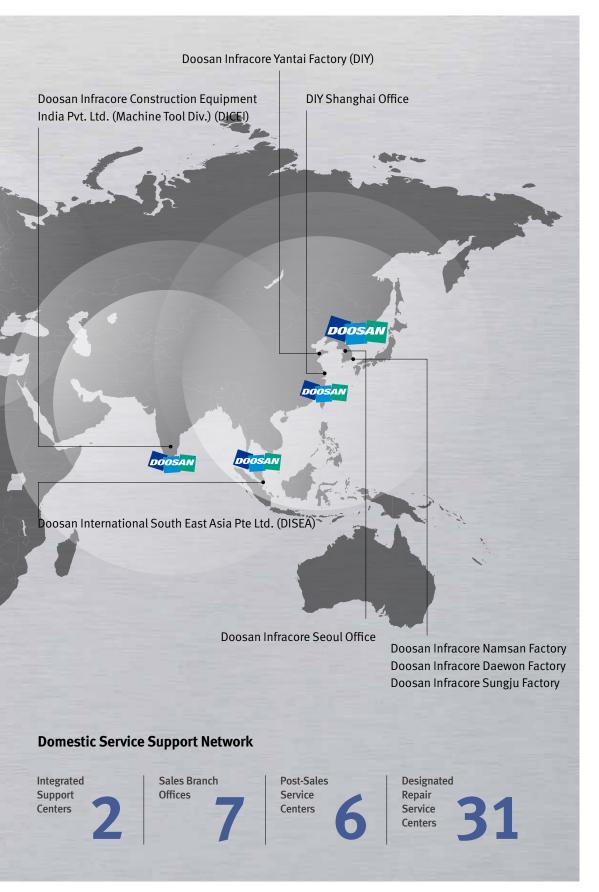
Customer Support Service

Responding to Customers Anytime, Anywhere



Doosan Machine Tools' Global Network, Responding to Customer's Needs nearby, Anytime, Anywhere

Doosan machine tools provides a system-based professional support service before and after the machine tool sale by responding quickly and efficiently to customers' demands. By supplying spare parts, product training, field service and technical support, we can provide top class support to our customers around the world.



Customer Support Service

We help customers to achieve success by providing a variety of professional services from presales consultancy to post-sales support.

Supplying Parts



- Supplying a wide range of original Doosan spare parts
- Parts repair service

Field Services



- On site service
- Machine installation and testing
- Scheduled preventive maintenance
- Machine repair

Technical Support



- Supports machining methods and technology
- Responds to technical queries
- Provides technical consultancy

Training



- Programming / machine setup and operation
- Electrical and mechanical maintenance
- Applications engineering

VM series

Description		UNIT	VM 750	VM 750L	VM 960	VM 960L	VM 1260
Axes Travel Distance	X-axis	mm (inch)	1500 (59.1)	1800 (70.9)	2000 (78.7)	2400 (94.5)	2500 (98.4)
	Y-axis	mm (inch)	750 (29.5)	960 (37.8)		1260 (49.6)
	Z-axis	mm (inch)		900 (35.4)			
Table Size (X x Y)		mm (inch)	1600 x 800 (900.0 x 31.5)	1900 x 800 (74.8 x 31.5)	2400 x 950 (94.5 x 40.0)	2600 x 950 (102.4 x 40.0)	2800 x 1260 (110.2 x 49.6)
Table Loading Capacity		kg (lb)	3000 (6613.8)	3500 (7716.1)	4000 (8818.4)	4500 (9920.7)	8000 (17636.7)
Max. Spindle Speed r/min		6000 (8000, 10000)					
No. of Tool Storage ea		ea	30		30 (40)		40



Doosan Machine Tools

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^{*} The specifications and information above-mentioned may be changed without prior notice.